VISION
installation:innovation

TECHCONNECT HDBT

OWNERS MANUAL

www.visionaudiovisual.com/techconnect/tc2-hdbt

DECLARATION OF CONFORMITY

Where applicable Vision products are certified and comply with all known local regulations to a 'CB Certification' standard. Vision commits to ensure all products are fully compliant with all applicable certification standards for sale in the EU and other participating countries.

The product described in this owner manual is in compliance with RoHS (EU directive 2002/95/EC), and WEEE (EU directive 2002/96/EC) standards. This product should be returned to the place of purchase at the end of its useful life for recycling.

WARNINGS

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

All products are designed and imported into the EU by 'Vision' who is wholly owned by 'Azlan Logistics Ltd.', Registered in England Nr. 04625566 at Lion House, 4 Pioneer Business Park, Clifton Moor, York, YO30 4GH. WEEE Registration: GD0046SY

DECLARATION OF ORIGIN

All Vision products are made in the People's Republic of China (PRC).

USE ONLY DOMESTIC AC OUTLETS
Connecting the unit to an outlet supplying a higher voltage may create a fire hazard.

HANDLE THE POWER CORD WITH CARE
Do not disconnect the plug from the AC outlet by pulling the cord; always pull the plug itself. Pulling the cord may damage it. If you do not intend to use your unit for any considerable length of time, unplug the unit. Do not place furniture or other heavy objects on the cord, and try to avoid dropping heavy objects on it. Do not tie a knot in the power cord. Not only could the cord be damaged, but a short circuit could also be caused with a consequent fire hazard.

PLACE OF INSTALLATION
Avoid installing this product under the following conditions:
• Moist or humid places
• Places exposed to direct sunlight or close to heating equipment
• Extremely cold locations
• Places subject to excessive vibration or dust
• Poorly ventilated places

Do not expose this product to dripping or splashing. DO NOT PLACE OBJECTS FILLED WITH LIQUIDS ON OR NEAR THIS PRODUCT!

MOVING THE UNIT
Before moving the unit, be sure to pull out the power cord from the AC outlet and disconnect the interconnection cords with other units.

WARNING SIGNS
If you detect an abnormal smell or smoke, turn this product off immediately and unplug the power cord. Contact your reseller or Vision.

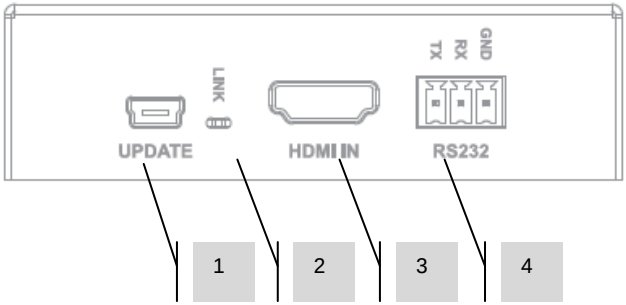
PACKAGING
Save all packing material. It is essential for shipping in the event the unit ever needs repair.

IF ORIGINAL PACKAGING IS NOT USED TO RETURN THE UNIT TO THE SERVICE CENTRE, DAMAGE IN TRANSIT WILL NOT BE COVERED BY WARRANTY.

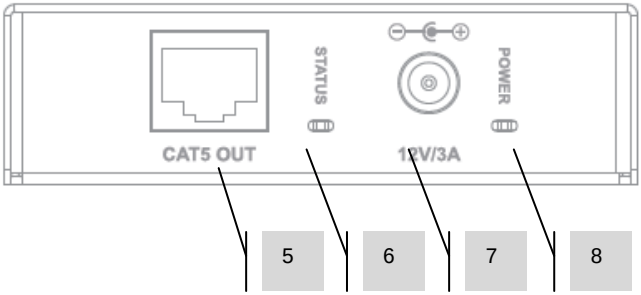
OVERVIEW

This product combines HDMI and RS-232 signals and routes them through CAT5e (ethernet) cable.

TRANSMITTER

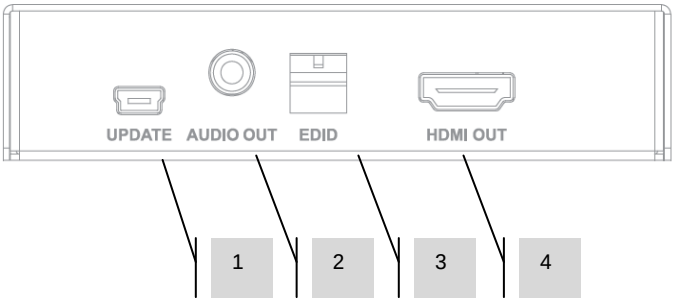


1. Mini USB-B connector - for firmware updates
2. Link LED – shows HDMI input is connected
3. HDMI Input
4. RS-232 Input

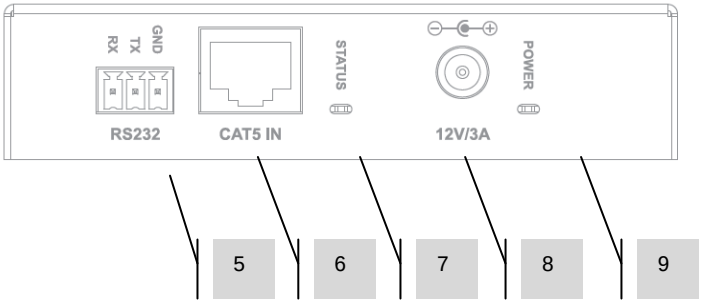


5. CAT5e/6 Output
6. Status LED – shows receiver is attached
7. 12V 3A Power input
8. Power LED

RECEIVER



1. Mini USB-B connector - for firmware updates
2. 3.5mm Minijack Audio Output (analogue)
3. EDID selector
4. HDMI Output



5. RS-232 Output
6. CAT5e/6 Input
7. Status LED – shows transmitter is attached
8. 12V 3A Power input
9. Power LED

INSTALLATION

When used as a set connect power to either the transmitter or receiver but not both.

Vision HDBT products use proprietary PoE. When using either the transmitter or receiver in conjunction with other manufacturer's HDBT equipment it is necessary to connect power.

1. CONNECT CABLES
   You can use unshielded twisted pair (UTP) cable or shielded twisted pair (STP). For best results use STP CAT5e/6 cable.

2. POWER ON HDBT TRANSMITTER AND RECEIVER

3. POWER ON DISPLAY DEVICE

4. POWER ON SOURCE DEVICE

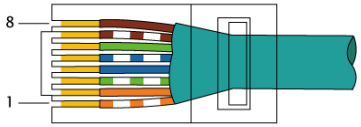
EDID (EXTENDED DISPLAY IDENTIFICATION DATA)

This enables the source device to 'ask' the display device what resolution it is, and output that resolution.

Position	Functions
000 (default)	Use EDID from display device, analogue audio output enabled
001	Use EDID from display device, audio output disabled
010	Fixed EDID, 1080p/60Hz, 3D, digital audio output enabled
011	Fixed EDID, 1080p/60Hz, Non-3D, digital audio output enabled

TROUBLESHOOTING

If your system is not operating properly, please refer to the following information. If the problem persists, disconnect from power and contact your AV reseller immediately.

Problem	Correction
Status lights no on	• Check CAT5e/6 cable • The cable should be wired to 568B standard at both ends.  If one end has green and orange swapped this is a cross-over cable and cannot be used. • Try unshielded cable
No Power light	• Check power connections • Try alternative power supply
Link light not on	• Check HDMI cable between source and transmitter
No audio	• Check the EDID switches on receiver
Image displayed incorrectly	• Check the EDID switches on receiver • Repeat start-up sequence
Lights all on but no image	• Check that source is turned on

SPECIFICATIONS

TRANSMITTER DIMENSIONS: 105 x 88 x 25 mm (length x width x height)
RECEIVER DIMENSIONS: 108 x 106 x 25 mm
PRODUCT WEIGHT:
Set: 0.68 kg
Transmitter: 0.30 kg
Receiver: 0.38 kg
CONSTRUCTION MATERIAL: Metal
COLOUR: White
TECHNICAL DETAILS:
Signaling rates: 2.25Gbits x 3
Input Video Signal: 0.5-1.0 volts p-p
Input DDC Signal: 5 volts p-p (TTL)
Video(HDMI) format supported: DTV/HDTV:1080p/1080i/720p/576p/480p/576i/480i
HDMI Version: 1.4 (3D)
Output Audio: PCM 2.0
Operating temperature range: -5 to +35°C (-41 to +95 °F)
Operating humidity range: 5 to 90 % RH (no condensation)
Power Consumption: 15 Watts (max.)
INPUTS:
1 x HDMI (type A)
1 x RS-232 (Phoenix connector)
OUTPUTS:
1 x HDMI (type A)
1 x RS-232 (Phoenix connector)
1 x Analogue Audio (Minijack 3.5mm)
POWER SUPPLY: 100-240v 50/60Hz AC External Power Supply – integrated transformer/plug type. DC Output 12V 3A, DC Cable 1.8m. Transformer dimensions: 96 x 44 x 28mm. Interchangeable prongs including UK, EU, AU, US. Note: a normal figure-8 cable can be plugged into the transformer if preferred.
COMPLIANCES: RoHS, WEEE, CE, and CB compliant.

ACCESSORIES
1 x Pair of mounting ears

WARRANTY

This product comes with a 2-year return to base warranty, effective from the date of purchase. This warranty applies only to the original purchaser and is not transferable. For the avoidance of doubt, this will be taken from the information held by the appointed national distributor at the point of sale. If the product is DOA (dead on arrival), you have 21 days from purchase date to notify the national distributor via your AV reseller. The liability of the manufacturer and its appointed service company is limited to the cost of repair and/or replacement of the faulty unit under warranty, except for death or injury (EU85/374/EEC). This warranty protects you against the following:

• Failure of any components, including the power supply.

• Damage when the product is first removed from its packaging if reported within 24 hours of purchase.

If you find you do have a problem with this product, you should contact the AV reseller you purchased this product from. The original purchaser is responsible for shipment of the product to the manufacturer's appointed service centre for repair.

We will endeavour to return repaired units within 5 working days, however this may not always be possible, in which case it will be returned as soon as practicably possible. In line with our WEEE commitments, the manufacturer endeavours to replace the faulty parts of the product rather than replacing the whole unit. This warranty does not protect this product against faults caused by abuse, misuse, incorrect installation, unstable or faulty power input, which might be caused by ignoring the guidelines set out in this manual.

LEGAL DISCLAIMER: Because we are committed to improving our products, the details above may change without prior warning. This User Manual is published without warranty and any improvements or changes to the User Manual necessitated by typographical errors, inaccuracies of current information, or improvements to programs and/or equipment, may be made at any time and without notice. Such changes will be incorporated into new editions of the User Manual.